

ANALYST:		VPDES NO	
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Parameter: Orthophosphate
Method: Two Reagent - Ascorbic Acid
04/01

METHOD OF ANALYSIS:

	EPA Methods For Chemical Analysis 365.3
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1) Are samples containing $(\text{PO}_4)^{-3}$ concentrations greater than 1.2 mg/L diluted to fall within the desired range? [1.2.1]		
2) Is absorbance measured with a spectrophotometer equipped with an infrared phototube for use at 650 nm with a light path of 1 cm or longer or a filter photometer with a red filter and a light path of 0.5 cm or longer? [6.1/8.3.3]		
3) Is glassware dedicated to phosphorus analysis? [6.2]		
4) Is glassware routinely rinsed with distilled water after use and cleaned with hot dilute HCl when necessary? [6.2]		
5) Is glassware kept covered between uses? [6.2]		
6) Is the stock phosphorus solution prepared with KH_2PO_4 that has been dried at 105°C for one hour? [7.6]		
7) Is ascorbic acid solution prepared every two weeks and stored at 4°C? [7.2]		
8) Are reagents discarded if precipitate or growths appear? [Permit]		
9) Is 4 ml of ammonium molybdate-antimony potassium tartrate and 1 ml of 11N H_2SO_4 added to 50 ml of sample? Note: Add no acid to digested samples. [8.3.1]		
10) Is 2 ml of ascorbic acid solution added to sample and mixed? [8.3.2]		
11) Is absorbance read after 5 minutes but no later than 60 minutes after the addition of the ascorbic acid? [8.3.3]		
12) Are matched cuvettes used for colorimetric analysis? [Permit]		
13) Are cuvettes free of fingerprints, scratches or stains? [Permit]		
14) Is curve prepared using the same conditions for standards as for samples? [8.3.1]		
15) Is a new curve drawn when standards are not within $\pm 2\%$ of the curve? [Permit]		
16) Are at least two standards which bracket the sample values and a reagent blank run with each series of samples? [Permit]		
17) Are standards prepared using Class A volumetric glassware? [Permit]		

PROBLEMS: